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INTRODUCTION

The *Bibliography of Agriculture* is a monthly index to the literature of agriculture and allied sciences, based upon the indexing records prepared by the U. S. National Agricultural Library, for its CAIN (Cataloging and Indexing) computer system. Macmillan Information prepares and publishes the Bibliography under the control of its own computer indexing system.

CONTENT

The National Agricultural Library collects literature related to agriculture from world wide sources. Publications are considered for inclusion in the CAIN System if a summary, abstract or title is available in a language in which the Library has expertise. The Bibliography includes journal articles, pamphlets, government documents, special reports, proceedings, etc. Books, new serials and other materials recently cataloged by the Library are announced in the *National Agricultural Library Catalog* published by Rowman and Littlefield.

Articles of substantial interest to the agricultural community are selected by specialists on the library staff. Editorials, letters to the editor, regular columns, and articles signed with pseudonyms or initials are not included. Indexing of articles on the processing of agricultural products is limited to those on primary processing. Generally material must have been published in the current year or the preceding year, but exceptions are made for comprehensive volumes or works of special significance to a wide audience.

The Bibliography is divided into four sections: A main entry section, a subject index, a corporate author index, and a personal author index.

MAIN ENTRY SECTION

The main entry section provides full bibliographic data for the records added to the CAIN system during the preceding month by the National Agricultural Library.

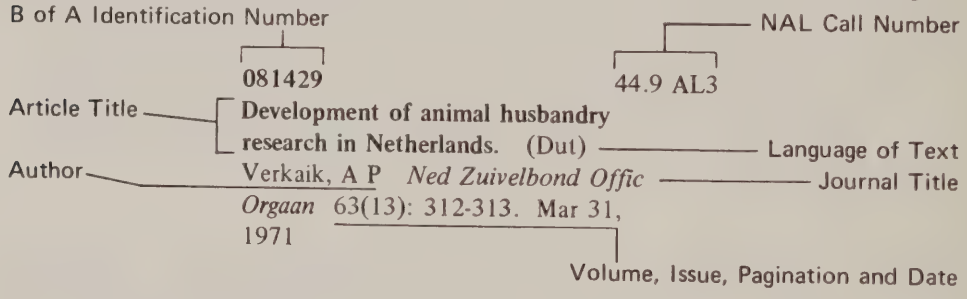
Entries are assigned to one (or more if appropriate) of the broad subject categories shown in the table of contents. The array of subject categories has been increased this year to facilitate browsing through a small number of citations of high relevance to a particular interest. Approximately equal numbers of citations will fall into each category over a given period of time. In assigning materials to the categories, first consideration is given to the aspect, discipline or methodology involved, so that the categories will enhance information given in the title.

Within each category, entries are arranged alphabetically by journal title abbreviation. This permits rapid locating and scanning of articles from journals which are known to be relevant.

Each entry begins with a six digit identification number assigned sequentially throughout a volume year. This number serves as an identifier for the item in the various indexes. The call number of the National Agricultural Library is also noted on the first line of each entry, and should be included in any correspondence with the library. All titles are in English, using the Library's translations of non-English titles as necessary. If the text is other than English, the original language is indicated in parentheses following the title, using the following notations:

(Afr)	Afrikaans	(Fle)	Flemish	(Lit)	Lithuanian
(Alb)	Albanian	(Fre)	French	(Mac)	Macedonian
(Arm)	Armenian	(Geo)	Georgian	(Nor)	Norwegian
(Aze)	Azerbaijani	(Ger)	German	(Pol)	Polish
(Bel)	Belorussian	(Gre)	Greek	(Por)	Portuguese
(Bul)	Bulgarian	(Heb)	Hebrew	(Rum)	Rumanian
(Bur)	Burmese	(Hun)	Hungarian	(Rus)	Russian
(Chi)	Chinese	(Ice)	Icelandic	(Ser)	Serbian
(Cro)	Croatian	(Ind)	Indonesian	(Slo)	Slovak
(Cze)	Czech	(Ita)	Italian	(Slv)	Slovenian
(Dan)	Danish	(Jap)	Japanese	(Spa)	Spanish
(Dut)	Dutch	(Kor)	Korean	(Swe)	Swedish
(Est)	Estonian	(Lat)	Latin	(Tha)	Thai
(Fin)	Finnish	(Lav)	Latvian	(Tur)	Turkish
				(Ukr)	Ukrainian

In order to identify bibliographic elements within each main entry, note the following:



SUBJECT INDEX

The subject index is designed to provide very specific access to the material in the main entry section. All entries are based on single words in the title (and title enrichment when added by the Library). An entry will be made whenever a title word matches a word on the authority file developed specifically for the Bibliography by CCM Information Corporation. The authority file reflects the most current terminology as it is used in the literature, and currently contains over 50,000 terms.

The entry may be made under a heading that is identical to the title word:

PROTEIN
Synthesis & **accumulation** of **protein**
High protein versus low **protein barley**

In some instances words which have the same meaning are grouped together under a single subject heading, effectively reducing the number of headings a user must consult.

BIRTH
Effect of restricted **feeding** since **birth**
primary enteritis of **newborn calves**
Perinatal mortality, especially in cattle

Cross references are printed in the index when entries are made under a synonym.

PERINATAL
SEE BIRTH

The title word on which the entry is based appears in bold face type to facilitate rapid scanning of the index. A secondary word which may either precede or follow the primary word also appears in bold face type. These word pairs can provide more rapid access to the desired citation by narrowing the subject.

WATER
of alga in some **brackish water** 088862

Water resources research in Minnesota 091217

Subject heading
Secondary word
B of A Identification Number

The bold face word pairs are augmented by including as many additional words of the title as possible within the width of the column. Some words are necessarily truncated, but truncation occurs only in the last word of the title segment.

The six digit identification number follows the citation and refers the user to the appropriate entry in the main entry section of the Bibliography.

AUTHOR INDEXES

All personal authors (to a maximum of ten for each citation) are included in the index. Entries are made by last name and initials, followed by the six digit identification number referring to the bibliographic data in the main entry section.

Author — Pierre JF 088862 — Bibliography of Agriculture Identification Number
Bay RR 091217

Corporate authors are entered in a separate index. The full corporate citation is given, followed by the six digit identification number referring to its appropriate main entry.

AVAILABILITY OF REFERENCES CITED

Most of the current publications of the Department of Agriculture, and publications issued by the State Experiment Stations and the State Agricultural Extension Services, may be obtained free of charge by applying directly to the issuing agency. The National Agricultural Library does not distribute them, nor does the publisher.

Users who wish to obtain full text for citations should first utilize the resources of their local libraries. For material which is not readily available from other sources, users may request material from the National Agricultural Library. Such requests must

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INTRODUCTION

The *Bibliography of Agriculture* is a monthly index to the literature of agriculture and allied sciences, based upon the indexing records prepared by the U.S. National Agricultural Library, for its CAIN (Cataloging and Indexing) computer system. Macmillan Information, a division of the Macmillan Publishing Company, Inc. prepares and publishes the Bibliography under the control of its own computer indexing system.

CONTENT

The National Agricultural Library collects literature related to agriculture from world wide sources. Publications are considered for inclusion in the CAIN System if a summary, abstract or title is available in a language in which the Library has expertise. The Bibliography includes journal articles, pamphlets, government documents, special reports, proceedings, etc. Books, new serials and other materials recently cataloged by the Library are announced in the *National Agricultural Library Catalog* published by Rowman and Littlefield.

Articles of substantial interest to the agricultural community are selected by specialists on the library staff. Editorials, letters to the editor, regular columns, and articles signed with pseudonyms or initials are not included. Indexing of articles on the processing of agricultural products is limited to those on primary processing. Generally material must have been published in the current year or the preceding year, but exceptions are made for comprehensive volumes or works of special significance to a wide audience.

The Bibliography is now divided into five sections: A main entry section, a subject index, a geographic index, a corporate author index, and a personal author index.

MAIN ENTRY SECTION

The main entry section provides full bibliographic data for the records added to the CAIN system during the preceding month by the National Agricultural Library.

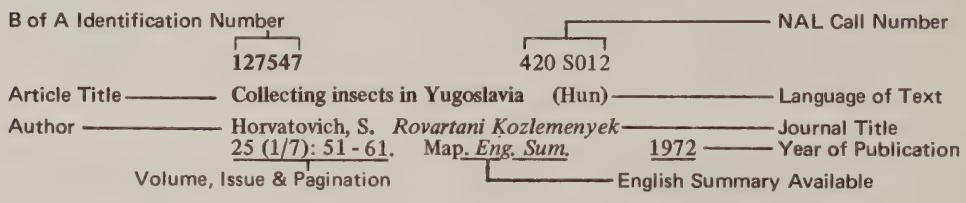
Entries are assigned to one (or more if appropriate) of the broad subject categories shown in the table of contents. The array of subject categories was increased in 1972 to facilitate browsing through a small number of citations of high relevance to a particular interest. Approximately equal numbers of citations will fall into each category over a given period of time. In assigning materials to the categories, first consideration is given to the aspect, discipline or methodology involved, so that the categories will enhance information given in the title.

Within each category, entries are arranged alphabetically by journal title abbreviation. This permits rapid locating and scanning of articles from journals which are known to be relevant.

Each entry begins with a six digit identification number assigned sequentially throughout a volume year. This number serves as an identfier for the item in the various indexes. The call number of the National Agricultural Library is also noted on the first line of each entry, and should be included in any correspondence with the library. All titles are in English, using the Library's translations of non-English titles as necessary. If the text is other than English, the original language is indicated in parentheses following the title, using the following notations:

(Afr)	Afrikaans	(Fle)	Flemish	(Lit)	Lithuanian
(Alb)	Albanian	(Fre)	French	(Mac)	Macedonian
(Arm)	Armenian	(Geo)	Georgian	(Nor)	Norwegian
(Aze)	Azerbaijani	(Ger)	German	(Pol)	Polish
(Bel)	Belorussian	(Gre)	Greek	(Por)	Portuguese
(Bul)	Bulgarian	(Heb)	Hebrew	(Rum)	Rumanian
(Bur)	Burmese	(Hun)	Hungarian	(Rus)	Russian
(Chi)	Chinese	(Ice)	Icelandic	(Ser)	Serbian
(Cro)	Croatian	(Ind)	Indonesian	(Slo)	Slovak
(Cze)	Czech	(Ita)	Italian	(Slv)	Slovenian
(Dan)	Danish	(Jap)	Japanese	(Spa)	Spanish
(Dut)	Dutch	(Kor)	Korean	(Swe)	Swedish
(Est)	Estonian	(Lat)	Latin	(Tha)	Thai
(Fin)	Finnish	(Lav)	Latvian	(Tur)	Turkish
				(Ukr)	Ukrainian

In order to identify bibliographic elements within each main entry, note the following:



SUBJECT INDEX

The vocabulary of the Bibliography of Agriculture is derived from the indexed literature. As a result, it reflects both natural language and scientific terminology. The reader must keep this fact in mind and approach the subject index without any preconceived taxonomy in mind. For example, data on a particular member of the ACARIDAE family may be found under TICKS as well. Prevention measures will be found under ACARICIDE.

The reader should plan his search in terms of the most specific natural language term prior to searching under a scientific term. However, note that the vocabulary is an open ended one and new terms are added each month. Undoubtedly readers will be more keenly aware of crucial search terms within their own fields of research. If such terms are missing, we hope readers will notify the editor of such gaps. The Subject Index will increase its utility if there is frequent interaction between the research community and the editor.

All entries are based on single words in the title (and title enrichment when added by the library). An entry will be made whenever a title word matches a word on the authority file, which currently contains over 25,000 terms. The file is organized so that in most cases synonymous terms are grouped together under a single subject heading. Thus singular and plural forms are grouped under a single term as are grammatical variants:

PROTEINS (singular and plural variation)
I. Water, fats, ash & salt. II **Protein**
Modifying **proteins** for maximum utilization

MANAGEMENT (grammatical and term variation)
profits through nutrition and **management**
Management agricultural extension
* **Administration** of agricultural cooperatives
Techniques of **administering** apiaries in apiculture

* Cross references are made to synonymous terms.

The title word on which the entry is based, appears in bold face type to facilitate rapid scanning of the index. A secondary word, which may either precede or follow the primary word, also appears in bold face type. These word pairs help provide finer access to desired term, particularly under headings which have many entries.

VIRUSES
Physical properties of blue-green **algal virus**
Venezuelan equine **encephalomyelitis virus**
Limited proteolysis of **potato virus X** by
with sugar beet tolerance to **virus yellows.**

If a search is required which related to a general term such as an ACID it would be preferable to search under the specific type of ACID. Very often a specific acid has already been established as a subject term. However new types of acids, or viruses or plant varieties will not have been identified in the the thesaurus and under such circumstances, searching under the more general term would prove more fruitful.

We have changed the format of the table of contents to reflect the identification number ranges of each of the main entry categories. Thus, the reader can check the category under which a subject entry falls, prior to verifying it in the main entry section.

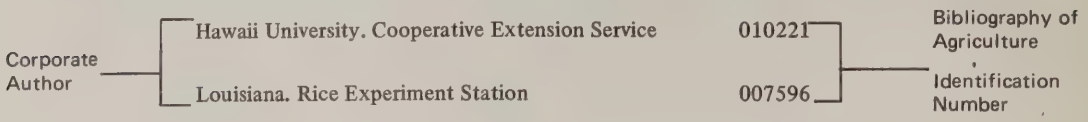
The asterisk line: * * * * * *
Occasionally the reader will encounter a series of asterisks in place of title data under a term, followed by the B of A identification number. This line indicates the presence of material which is part of a series and the title data is identical to that immediately above the asterisk. The identification number given is the last entry in the series which has been entered consecutively within a particular category.

GEOGRAPHIC INDEX

As part of our goal of constantly increasing access to the literature, we have added a geographic index. This index is a direct alphabetic listing of all place names which have been indexed in association with the title. Obviously not all titles will have geographic entries. The indexing division of the National Agricultural Library will add geographic descriptors wherever it is germane to the subject of the article.

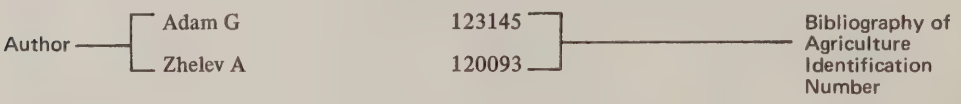
CORPORATE AUTHOR INDEX

Readers will note that the corporate author index is considerably enlarged. We are now able to indicate authorship of the publications of the State Agricultural Experiment Stations and Extension Services. The full corporate citation is given, followed by the six digit identification number referring to its appropriate main entry.



AUTHOR INDEX

All personal authors (to a maximum of ten for each citation) are included in the index. Entries are made by last name and initials, followed by the six digit identification number referring to the bibliographic data in the main entry section.



AVAILABILITY OF REFERENCES CITED

Most of the current publications of the Department of Agriculture, and publications issued by the State Experiment Stations and the State Agricultural Extension Services, may be obtained free of charge by applying directly to the issuing agency. The National Agricultural Library does not distribute them, nor does the publisher.

Users who wish to obtain full text for citations should first utilize the resources of their local libraries. For material which is not readily available from other sources, users may request material from the National Agricultural Library. Such requests must include the complete citation as well as the Library's call number. Microfilm or electrostatic copies of documents may be purchased from the Photocopying Service of the National Agricultural Library, U.S. Department of Agriculture, Beltsville, Maryland 20705. Copy charges are:

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MAIN ENTRY SECTION

GENERAL AGRICULTURE AND RURAL SOCIOLOGY

010367 S67.E2 No.25
Agriculture in Coastal Zone of Louisiana. Corty, Floyd L *[baton Rouge]* 27 P. Illus., Map. 1972

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Delineation of regions according to off-farm employment opportunities. [Rural population migration]. (Ger) Haen, H de *Agrarwirtschaft* 21 (8): 265-275. Map. Ref. Eng. Sum. Aug 1972

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Yanco Agricultural College> an opportunity for future farmers to gain a sound vocational training. Bannister, K W *Agric Gaz N S W* 83 (4): 234-235. Aug 1972

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Hacienda El Huique in agrarian structure of nineteenth-centruy Chile. Bauer, A J *Agric Hist* 46 (4): 455-470. Map. Ref. Oct 1972

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An interim evaluation of effectiveness of nonprofessionals in cooperative extension education for low income farmers. Ladewig, H W; Edmondson, V W *Ass Southern Agr Workers Agr Econ Rural Sociol Sect Proc* P. 209-241. 1972

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010394 18 N11
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Situation in advisroy service. (Ger) Engelhardt, H *Ausbildung Beratung LandHauswirtsch* 25 (7/8): 130-132. July/Aug 1972

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INTRODUCTION

The *Bibliography of Agriculture* is a monthly index to the literature of agriculture and allied sciences, based upon the indexing records prepared by the U.S. National Agricultural Library, for its CAIN (Cataloging and Indexing) computer system. Macmillan Information, a division of the Macmillan Publishing Company, Inc. prepares and publishes the Bibliography under the control of its own computer indexing system.

CONTENT

The National Agricultural Library collects literature related to agriculture from world wide sources. Publications are considered for inclusion in the CAIN System if a summary, abstract or title is available in a language in which the Library has expertise. The Bibliography includes journal articles, pamphlets, government documents, special reports, proceedings, etc. Books, new serials and other materials recently cataloged by the Library are announced in the *National Agricultural Library Catalog* published by Rowman and Littlefield.

Articles of substantial interest to the agricultural community are selected by specialists on the library staff. Editorials, letters to the editor, regular columns, and articles signed with pseudonyms or initials are not included. Indexing of articles on the processing of agricultural products is limited to those on primary processing. Generally material must have been published in the current year or the preceding year, but exceptions are made for comprehensive volumes or works of special significance to a wide audience.

The Bibliography is now divided into five sections: A main entry section, a subject index, a geographic index, a corporate author index, and a personal author index.

MAIN ENTRY SECTION

The main entry section provides full bibliographic data for the records added to the CAIN system during the preceding month by the National Agricultural Library.

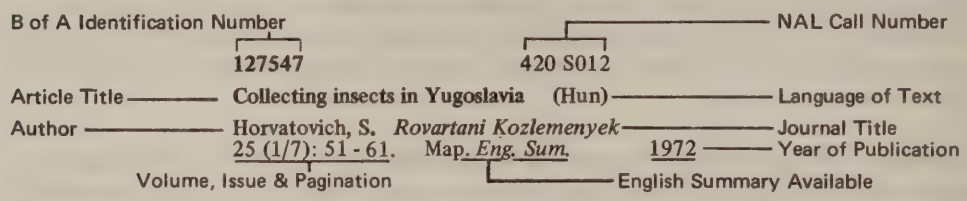
Entries are assigned to one (or more if appropriate) of the broad subject categories shown in the table of contents. The array of subject categories was increased in 1972 to facilitate browsing through a small number of citations of high relevance to a particular interest. Approximately equal numbers of citations will fall into each category over a given period of time. In assigning materials to the categories, first consideration is given to the aspect, discipline or methodology involved, so that the categories will enhance information given in the title.

Within each category, entries are arranged alphabetically by journal title abbreviation. This permits rapid locating and scanning of articles from journals which are known to be relevant.

Each entry begins with a six digit identification number assigned sequentially throughout a volume year. This number serves as an identfier for the item in the various indexes. The call number of the National Agricultural Library is also noted on the first line of each entry, and should be included in any correspondence with the library. All titles are in English, using the Library's translations of non-English titles as necessary. If the text is other than English, the original language is indicated in parentheses following the title, using the following notations:

(Afr)	**Afrikaans**	**(Fle)**	**Flemish**	**(Lit)**	**Lithuanian**
(Alb)	**Albanian**	**(Fre)**	**French**	**(Mac)**	**Macedonian**
(Arm)	**Armenian**	**(Geo)**	**Georgian**	**(Nor)**	**Norwegian**
(Aze)	**Azerbaijani**	**(Ger)**	**German**	**(Pol)**	**Polish**
(Bel)	**Belorussian**	**(Gre)**	**Greek**	**(Por)**	**Portuguese**
(Bul)	**Bulgarian**	**(Heb)**	**Hebrew**	**(Rum)**	**Rumanian**
(Bur)	**Burmese**	**(Hun)**	**Hungarian**	**(Rus)**	**Russian**
(Chi)	**Chinese**	**(Ice)**	**Icelandic**	**(Ser)**	**Serbian**
(Cro)	**Croatian**	**(Ind)**	**Indonesian**	**(Slo)**	**Slovak**
(Cze)	**Czech**	**(Ita)**	**Italian**	**(Slv)**	**Slovenian**
(Dan)	**Danish**	**(Jap)**	**Japanese**	**(Spa)**	**Spanish**
(Dut)	**Dutch**	**(Kor)**	**Korean**	**(Swe)**	**Swedish**
(Est)	**Estonian**	**(Lat)**	**Latin**	**(Tha)**	**Thai**
(Fin)	**Finnish**	**(Lav)**	**Latvian**	**(Tur)**	**Turkish**
				(Ukr)	**Ukrainian**

In order to identify bibliographic elements within each main entry, note the following:



SUBJECT INDEX

The vocabulary of the Bibliography of Agriculture is derived from the indexed literature. As a result, it reflects both natural language and scientific terminology. The reader must keep this fact in mind and approach the subject index without any preconceived taxonomy in mind. For example, data on a particular member of the ACARIDAE family may be found under TICKS as well. Prevention measures will be found under ACARICIDE.

The reader should plan his search in terms of the most specific natural language term prior to searching under a scientific term. However, note that the vocabulary is an open ended one and new terms are added each month. Undoubtedly readers will be more keenly aware of crucial search terms within their own fields of research. If such terms are missing, we hope readers will notify the editor of such gaps. The Subject Index will increase its utility if there is frequent interaction between the research community and the editor.

All entries are based on single words in the title (and title enrichment when added by the library). An entry will be made whenever a title word matches a word on the authority file, which currently contains over 25,000 terms. The file is organized so that in most cases synonymous terms are grouped together under a single subject heading. Thus singular and plural forms are grouped under a single term as are grammatical variants:

PROTEINS (singular and plural variation)
I. Water, fats, ash & salt. II **Protein**
Modifying **proteins** for maximum utilization

MANAGEMENT (grammatical and term variation)
profits through nutrition and **management**
Management agricultural extension
* **Administration** of agricultural cooperatives
Techniques of **administering** apiaries in apiculture

* Cross references are made to synonymous terms.

The title word on which the entry is based, appears in bold face type to facilitate rapid scanning of the index. A secondary word, which may either precede or follow the primary word, also appears in bold face type. These word pairs help provide finer access to desired term, particularly under headings which have many entries.

VIRUSES
Physical properties of blue-green **algal virus**
Venezuelan equine **encephalomyelitis virus**
Limited proteolysis of **potato virus X** by
with sugar beet tolerance to **virus yellows.**

If a search is required which related to a general term such as an ACID it would be preferable to search under the specific type of ACID. Very often a specific acid has already been established as a subject term. However new types of acids, or viruses or plant varieties will not have been identified in the the thesaurus and under such circumstances, searching under the more general term would prove more fruitful.

We have changed the format of the table of contents to reflect the identification number ranges of each of the main entry categories. Thus, the reader can check the category under which a subject entry falls, prior to verifying it in the main entry section.

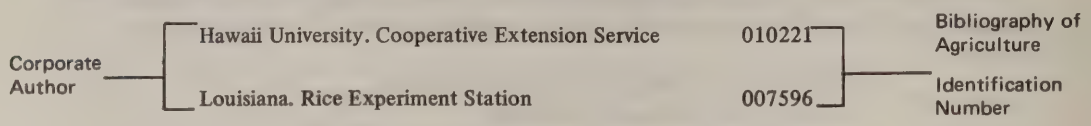
The asterisk line: * * * * * *
Occasionally the reader will encounter a series of asterisks in place of title data under a term, followed by the B of A identification number. This line indicates the presence of material which is part of a series and the title data is identical to that immediately above the asterisk. The identification number given is the last entry in the series which has been entered consecutively within a particular category.

GEOGRAPHIC INDEX

As part of our goal of constantly increasing access to the literature, we have added a geographic index. This index is a direct alphabetic listing of all place names which have been indexed in association with the title. Obviously not all titles will have geographic entries. The indexing division of the National Agricultural Library will add geographic descriptors wherever it is germane to the subject of the article.

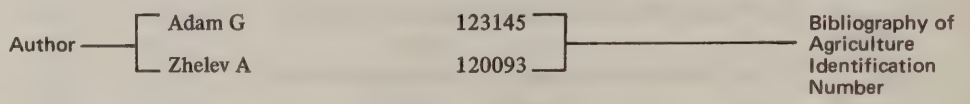
CORPORATE AUTHOR INDEX

Readers will note that the corporate author index is considerably enlarged. We are now able to indicate authorship of the publications of the State Agricultural Experiment Stations and Extension Services. The full corporate citation is given, followed by the six digit identification number referring to its appropriate main entry.



AUTHOR INDEX

All personal authors (to a maximum of ten for each citation) are included in the index. Entries are made by last name and initials, followed by the six digit identification number referring to the bibliographic data in the main entry section.



AVAILABILITY OF REFERENCES CITED

Most of the current publications of the Department of Agriculture, and publications issued by the State Experiment Stations and the State Agricultural Extension Services, may be obtained free of charge by applying directly to the issuing agency. The National Agricultural Library does not distribute them, nor does the publisher.

Users who wish to obtain full text for citations should first utilize the resources of their local libraries. For material which is not readily available from other sources, users may request material from the National Agricultural Library. Such requests must include the complete citation as well as the Library's call number. Microfilm or electrostatic copies of documents may be purchased from the Photocopying Service of the National Agricultural Library, U.S. Department of Agriculture, Beltsville, Maryland 20705. Copy charges are:

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MAIN ENTRY SECTION

GENERAL AGRICULTURE AND RURAL SOCIOLOGY

020144 275.8 AG8
Elementary programs for career education in agriculture. Snowden, O L; Shoemake, R G *Agric Educ Mag* 45 (7): 149-150, 153. Jan 1973

020145 275.8 AG8
Career education in elementary school. Mammebach, A J *Agric Educ Mag* 45 (7): 154-155. Jan 1973

020146 275.8 AG8
Competencies for careers in agriculture. Caldwell, W *Agric Educ Mag* 45 (7): 156-157. Jan 1973

020147 275.8 AG8
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SEE FESTUCA

FESTUCA

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